

Appendix A

1. (Currently amended) A method for promoting healing of a skin wound comprising steps of:

providing isolated tropoelastin wherein the tropoelastin has not previously been crosslinked and is therefore available for crosslinking, and isolated lysyl oxidase, which components are kept separated from each other; and

applying both said tropoelastin and said lysyl oxidase to a skin wound simultaneously or sequentially, so that said tropoelastin is not crosslinked to itself prior to application to the wound.

2. (Original) The method of claim 1 wherein tropoelastin is wild type tropoelastin matched to species of recipient.

3-4. Cancelled.

5. (Original) The method of claim 1 wherein tropoelastin comprises a heterogeneous mixture of tropoelastin isoforms.

6-8. Cancelled.

9. (Original) The method of claim 1 wherein the method comprises the additional step of: repeatedly applying the tropoelastin and lysyl oxidase to the wound during the healing process.

10. (Original) The method of claim 1 wherein the method comprises the additional step of: approximating separated tissue of the wound using sutures, staples, adhesive strips, or tissue glue.

11. (Original) The method of claim 1 wherein the step of applying comprises applying the tropoelastin and lysyl oxidase with a sterile syringe.

12. (Previously presented) The method of claim 1 wherein the tropoelastin or lysyl oxidase has been mixed with other materials selected from the group consisting of polymers, emulsifiers, oils, perfumes, proteins, polysaccharides, nucleic acids, microfibrils, antimicrobial agents, adhesive agents, and protease inhibitors.

13. (Currently amended) A kit comprising tropoelastin wherein the tropoelastin has not previously been crosslinked and is therefore available for crosslinking, and lysyl oxidase in separate compartments.

14. (Original) The kit of claim 13 wherein the tropoelastin is wild type tropoelastin.

15-16. Cancelled.

17. (Original) The kit of claim 13 wherein the lysyl oxidase is wild type lysyl oxidase.

18-25. Cancelled.

26. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 60% identical to wild type tropoelastin or lysyl oxidase.

27. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 70% identical to wild type tropoelastin or lysyl oxidase.

28. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 80% identical to wild type tropoelastin or lysyl oxidase.

29. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 90% identical to wild type tropoelastin or lysyl oxidase.

30. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 95% identical to wild type tropoelastin or lysyl oxidase.

31. (New) The method of claim 1 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 99% identical to wild type tropoelastin or lysyl oxidase.
32. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 60% identical to wild type tropoelastin or lysyl oxidase.
33. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 70% identical to wild type tropoelastin or lysyl oxidase.
34. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 80% identical to wild type tropoelastin or lysyl oxidase.
35. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 90% identical to wild type tropoelastin or lysyl oxidase.
36. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 95% identical to wild type tropoelastin or lysyl oxidase.
37. (New) The kit of claim 13 wherein the isolated tropoelastin or isolated lysyl oxidase is at least 99% identical to wild type tropoelastin or lysyl oxidase.